

ABSTRACT

The present invention provides a polarizer which has and regularly arranged two-dimensional structure which has a pitch of 1 mm or so or less.

The polarizer has structure in which two or more film-shaped materials which have substantially regularly arranged one-dimensional undulation. The polarizer has substantially regularly arranged two-dimensional structure. For example, the polarizer consists of materials 1 and 2 which have different refractive indexes.

A regularly arranged two-dimensional structure which has a pitch of 1 mm or so or less can be obtained by a simple method. Because of this structure, the polarizer transmits the incidence light which has a specific polarized plane and reflects the incidence light which has a polarized plane which is orthogonalized to the plane.

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